Signature

Approved for use through 04/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

HADEUAR	Application Number	tion of information unless it displays a valid OMB control number. 10/021,566
TRANSMITTAL	Filing Date	December 12, 2001
FORM	First Named Inventor	Douglas G. Hunter et al.
(to be used for all correspondence after initial filing)	Art Unit	3746
	Examiner Name	John F. Belena, Ph.D.
Total Number of Pages in This Submission	Attorney Docket Number	DKT 00147A (BWI-00061)

		ENCLOSURES (Check all that apply)			
	Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) Remarks Applicant believes no fee to be due for additional fees be due in order to preve application, please consider this as aut No. 501612 (Warn, Hoffmann, Miller &	After Allowance communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): Form PTO/SB/08a and 08b with copies of 92 U.S & 34 Foreign Patents; Return Receipt Postcard the attached filing, however, should ent the abandonment of this thorization to charge Deposit Account			
	or Individual name Philip R. Warn, Reg. No. 32775 Signature					
	C	CERTIFICATE OF TRANSMISSION/MAI	ILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.						
Турес	d or printed name Philip R. Wai	rn - Reg. No. 32775	Date			

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

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	for	FY	2004	4

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

(\$) 180.00 TOTAL AMOUNT OF PAYMENT

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Complete if Known			
Application Number	10/021,566		
Filing Date	December 12, 2001		
First Named Inventor	Douglas G. Hunter et al.		
Examiner Name	John F. Belena, Ph.D.		
Art Unit	3746		
Attorney Docket No.	DKT 00147A (BWI-000061)	J	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
✓ Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	<u>Large</u>	Entity	Small	Entity		
Denosit	Fee Code	Fee (\$)		Fee (\$)	Fee Description	Fee Paid
Account 501612	1051	130	2051	• • •	Surcharge - late filing fee or oath	
Number Deposit Account Warn, Hoffmann, Miller & LaLone, P.C.	1052	50	2052	25	Surcharge - late provisional filing fee or	
Account Name	4050	400	4050		cover sheet Non-English specification	
The Director is authorized to: (check all that apply)	1053	130 2,520	1053 1812		For filing a request for ex parte reexamination	
Charge fee(s) indicated below Credit any overpayments	1804	920*	1804	-,	Requesting publication of SIR prior to	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920	1004	320	Examiner action	
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
to the above-identified deposit account.	1251	110	2251	55	Extension for reply within first month	
FEE CALCULATION	1252	420	2252	210	Extension for reply within second month	
1. BASIC FILING FEE	1253	950	2253		Extension for reply within third month	
Large Entity Small Entity Fee Fee Fee Fee Fee Fee Description Fee Paid	1254		2254	740	Extension for reply within fourth month	
Code (\$) Code (\$)		2,010	2255		Extension for reply within fifth month	
1001 770 2001 385 Utility filing fee		•		•		
1002 340 2002 170 Design filing fee	1401	330	2401		Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402		Filing a brief in support of an appeal Request for oral hearing	
1004 770 2004 385 Reissue filing fee	1403	290	2403		•	
1005 160 2005 80 Provisional filing fee	li .	1,510	1451		Petition to institute a public use proceeding	-
SUBTOTAL (1) (\$) 0.00	1452	110	2452		Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	:	1,330	2453		Petition to revive - unintentional	
Fee from	1301	1,330 480	2501 2502		Utility issue fee (or reissue) Design issue fee	
Extra Claims below Fee Palo	1502	640	2502		Plant issue fee	
Independent 3** - X = 0.00	1460	130	1460		Petitions to the Commissioner	
Claims 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	i i	180	1806		Submission of Information Disclosure Stmt	180.00
Fee Fee Fee <u>Fee Description</u>	1806				Recording each patent assignment per	
Code (\$)	8021	40	8021	1 40	property (times number of properties)	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0.00	Other	fee (sp	ecify) _			
SUBTOTAL (2) (\$) U.UU	*Red	uced by	Basic I	Filing F	ee Paid SUBTOTAL (3) (\$) 180.0	00

SUBMITTED BY			(Complete (if applicable))
Name (Print/Type)	Philip R. Warr	Registration No. (Attorney/Agent) 32775	Telephone (248) 364-4300
Signature	76.		Date

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Application No.:

10/021,566

Filing Date:

December 12, 2001

Applicant:

Douglas G. Hunter et al.

Group Art Unit:

3746

Examiner:

John F. Belena, Ph.D.

Title:

VARIABLE DISPLACEMENT VANE PUMP WITH

INITED STATES PATENT AND TRADEMARK OFFICE

VARIABLE TARGET REGULATOR

Attorney Docket:

DKT 00147A (BWI-00061)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 or PTO/SB/08a and 08b attached hereto.

II. COPIES

A. _____ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ____ Any patents, publications or other information which are listed on Form 1449 or PTO/SB/08a and 08b or on the copies of PTO-892, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

C.___This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 or PTO/SB/08a and 08b for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ___ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

- 1. See the attached foreign search report.
- 2. English translations are provided for: the Abstracts.
- 3. Other:

C. ___ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.	<u>Filing Date</u>	<u>Art Unit</u>
10/406,575	04/03/2003	3746
60/510,222	10/10/2003	3746
10/192,578	07/10/2002	3746

V. THIS IDS IS BEING FILED UNDER

A. ____ 37 C.F.R. § 1.97(b): (check <u>only</u> one box)

1.____ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

- 2. within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p). 4. before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required. B. 37 C.F.R. § 1.97(c): (check <u>only</u> one box) • before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution. 1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p). 2. See the certification below. No fee is required. C. **37** C.F.R. § 1.97(d):
- - after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
 - 1. Y See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
- D. 37 C.F.R. § 1.97(i):
 - This Information Disclosure Statement does not comply with any of §1.97(b), (c) or (d), and therefore will not be considered by the Office, but will be placed in the file.

VI. <u>CERTIFICATION UNDER 37 C.F.R. § 1.97(e):</u> (check <u>only</u> one box)

The undersigned hereby certifies that:

A. ____ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)); or

- B. <u>v</u> no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
- C. ____Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. PAYMENT OF FEES (check only one box)

- A. ____ Payment by Credit Card. Form PTO 2038 is enclosed in the amount of \$180.00 for the above-identified fee.
- B. A check in the amount of \$180.00 is enclosed for the above-identified fee.
- C. ____ Please charge Deposit Account No. 501612 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 501612.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 501612.

Respectfully submitted,

WARN, HOFFMANN, MILLER & LALONE, P.C. Attorneys for Applicant(s)

P.O. Box 70098 Rochester Hills, MI 48307 (248) 364-4300

Dated:

PRW:

Enclosures

Philip R. Warn

Reg. No. 32775

PTO/SB/08a (05-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Sheet 1

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 6

Complete if Known

Application Number 10/021,566
Filing Date December 12, 2001
First Named Inventor Hunter et al.
Art Unit 3746
Examiner Name John F. Belena, Ph.D

Attorney Docket Number DKT 00147A (BWI-000061)

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	-	US- 6,669,439	12-30-2003	Kardasz et al.	
		^{US-} 6,615,683	09-09-2003	Voigt	
		^{US-} 6,524,076	02-25-2003	Konishi	
		^{US-} 6,488,479	12-03-2002	Berger	
		^{US-} 6,408,975	06-25-2002	Bishop et al.	
		^{US-} 6,216,651	04-17-2001	Ishikawa et al.	
		^{US-} 6,202,016	03-13-2001	Stephenson et al.	
		^{US-} 6,155,797	12-05-2000	Kazuyoshi	
		^{US-} 6,131,539	10-17-2000	Thomas	
		^{US-} 6,079,380	06-27-2000	Jorgensen et al.	
		^{US-} 6,065,433	05-23-2000	Hill	
		^{US-} 6,053,137	04-25-2000	Trzmiel et al.	
		^{US-} 5,996,541	12-07-1999	Voigt et al.	
		^{US-} 5,921,758	07-13-1999	Anamoto et al.	
		US- 5,918,573	07-06-1999	Killion	
		^{US-} 5,904,126	05-18-1999	McKay et al.	
		^{US-} 5,863,189	01-26-1999	Sundberg et al.	
		^{US-} 5,826,556	10-27-1998	Ruman et al.	
		^{US-} 5,800,131	09-01-1998	Lehmann et al.	

-	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ 'Number ⁴ 'Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ₆		
		DE 102 37 801	07-17-2003	Voigt				
		WO 03/058071	07-17-2003	Voigt		~		
		english translation of WO 03/058071	07-17-2003	Voigt				
		WO 01/55597	08-02-2001	Pascoe				
		DE 40 38 549	07-17-2003	Wirbeleit		~		
		english translation of DE 40 28 549	07-17-2003	Voigt				

Examiner	Date	
Signature	Considered	
[Olynoidia		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known					
Application Number 10/021,566					
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			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Number-Kind Code ^{2 (I known)}			Figures Appear
		^{US-} 5,797,732	08-25-1998	Watanabe et al.	
		^{US-} 5,752,815	05-19-1998	Muller	
		^{US-} 5,690,479	11-25-1997	Lehmann et al.	
		^{US-} 5,630,383	05-20-1997	Kidera et al.	
		^{US-} 5,618,165	04-08-1997	Larsson et al.	
		^{US-} 5,588,504	12-31-1996	Spiegel et al.	
		^{US-} 5,545,018	08-13-1996	Sundberg	
		^{US-} 5,545,014	08-13-1996	Sundberg et al.	·
		^{US-} 5,544,628	08-13-1996	Voigt	
		^{US-} 5,467,843	11-21-1995	Esch et al.	
		^{US-} 5,465,699	11-14-1995	Voigt	
		^{US-} 5,490,770	02-13-1996	Oogushi	
		^{US-} 5,485,725	01-23-1996	Teraoka	
	1	us- 5,484,271	01-16-1996	Stich	
	i –	US- 5,435,698	07-25-1995	Phillips	
		US- 5,404,855	04-11-1995	Yen et al.	
		^{US-} 5,398,505	03-21-1995	Oogushi et al.	
		^{US-} 5,390,635	02-21-1995	Kidera et al.	
		^{US-} 5,355,851	10-18-1994	Kamiya	

		FORE	IGN PATENT DOCU	MENTS	_	
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵
		DE 36 217 20	01-08-1987	Voigt		
•		DE 32 386 50	04-19-1984	Voigt		
		DE 32 304 32	02-16-1984	Voigt		
		DE 37 295 45	03-24-1988	Voigt		
,		DE 37 423 15	07-28-1988	Voigt		
		DE 38 243 98	02-02-1989	Otto et al.		

Examiner	Date	
Signature	Considered	
-		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 3

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		US- 5,353,753	10-11-1994	McGrath et al.	
		^{US-} 5,339,776	08-23-1994	Regueiro	
		US- 5,315,971	05-31-1994	Yamada	
-		^{US-} 5,273,020	12-28-1993	Hayami	
		^{US-} 5,239,885	08-31-1993	Voigt	
		^{US-} 5,195,474	03-23-1993	Urata et al.	
		^{US-} 5,190,003	03-02-1993	Voigt	
		^{US-} 5,141,418	08-25-1992	Ohtaki et al.	
		^{US-} 5,105,679	04-21-1992	Voigt	
		^{US-} 5,101,789	04-07-1992	Voigt et al.	
		^{US-} 5,090,881	02-25-1992	Suzuki et al.	
		^{US-} 5,085,187	02-04-1992	Black	
		^{US-} 5,078,233	01-07-1992	Oetting et al.	
		^{US-} 5,067,454	11-26-1991	Waddington et al.	
		us- 5,063,895	11-12-1991	Ampferer	
		^{US-} 5,052,896	10-01-1991	Fischer et al.	
		^{US-} 5,017,098	05-21-1991	Hansen et al.	
		^{US-} 4,976,230	12-11-1990	Voigt	
		^{US-} 4,974,562	12-04-1990	Ishii et al.	

		FOREI	GN PATENT DOCL	IMENTS		
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	- 6
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	
		DE 38 40 909	06-29-1989	Voigt		
		DE 39 25 249	03-01-1990	Voigt		П
		DE 42 42 871	06-23-1994	Straetz		
		DE 101 41 786	03-20-2003	Scholl		
		DE 44 44 819	06-20-1996	Luedtke		
		DE 101 44 693	03-27-2003	Voigt		

Examiner	Date	
Signature	Considered	

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Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known					
Application Number	10/021,566				
Filing Date	December 12, 2001				
First Named Inventor	Hunter et al.				
Art Unit	3746				
Examiner Name	John F. Belena, Ph.D				
Attorney Docket Number	DKT 00147A (BWI-00061)				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	├	Number-Kind Code ^{2 (if known)}	100.00.1000		, igailos / ppcai
		^{US-} 4,905,807	03-06-1990	Rohs et al.	
		^{US-} 4,850,269	07-25-1989	Hancock et al.	
		^{US-} 4,825,692	05-02-1989	Rohs et al.	
		^{US-} 4,803,969	02-14-1989	Hiereth et al.	
		^{US-} 4,774,918	10-04-1988	Kurio et al.	
		^{US-} 4,754,738	07-05-1988	Grohn et al.	
		^{US-} 4,740,142	04-26-1988	Rohs et al.	
		^{US-} 4,738,330	04-19-1988	Suzuki et al.	
		^{US-} 4,710,106	12-01-1987	Iwata et al.	
		^{US-} 4,693,081	09-15-1987	Nakamura et al.	
		^{US-} 4,632,638	12-30-1986	Shibayama et al.	
		^{US-} 4,538,974	09/03/1985	Stich et al.	
		^{US-} 4,531,898	07-30-1985	Ideta	
		US- 4,531,706	07-30-1985	Weiger et al.	
		^{US-} 4,510,962	04-16-1985	Mott et al.	
		^{US-} 4,496,288	01-29-1985	Nakamura et al.	
		^{US-} 4,468,173	08-28-1984	Dantlgraber	
		^{US-} 4,450,818	05-29-1984	Thoma et al.	
		^{US-} 4,369,743	01-25-1983	Holt et al.	

		FORE	IGN PATENT DOCL	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵
		JP 62 294 790	12-22-1987	Takagi et al.		
		DE 43 02 610	01-30-1993	Weber et al.		
		CA 23 85 897	11-10-2003	Pascoe et al.		
		WO 01/79703	10-25-2001	Pascoe		
		EP 1 316 683	06-04-2003	Maier		
		EP 1 350 930	10-8-2003	Koenig et al.		

Examiner	Date
Signature	Considered

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Sheet 5

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Co	mplete if Known
Application Number	10/021,566
Filing Date	December 12, 2001
First Named Inventor	Hunter et al.
Art Unit	3746
Examiner Name	John F. Belena, Ph.D
Attorney Docket Number	DKT 00147A (BWI-00061)

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (f known)}	00 07 1000	Acheson	
		^{US-} 4,348,159	09-07-1982	<u> </u>	
		^{US-} 4,328,480	05-04-1982	Keitel et al.	
		^{US-} 4,325,215	04-20-1982	Yamamoto	
		^{US-} 4,292,805	10-06-1981	Acheson	
		^{US-} 4,259,039	03-31-1981	Arnold	
		^{US-} 4,236,595	12-02-1980	Beck et al.	
		^{US-} 4,222,718	09-16-1980	Lemke	
·		^{US-} 4,035,105	07-12-1977	Dantlgraber	
		^{US-} 4,014,305	03-29-1977	Skinner	
-		^{US-} 3,973,881	08-10-1976	Melchinger	
		^{US-} 3,918,855	11-11-1975	Bornholdt	
		^{US-} 3,771,921	11-13-1973	Rohde et al.	
		^{US-} 3,204,859	09-07-1965	Crooks	
		^{US-} 3,011,308	12-05-1961	Wotring	
		^{US-} 2,716,946	09-06-1955	Hardy	
		^{US-} 2001/0036412	11-01-2001		
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	т6
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	IVIIVI-DD-1111		Of Relevant Figures Appear	Ľ
		EP 1 130 262	09-05-2001	Voigt		
		FR 2 673 676	09-11-1992	Lazar et al.		
		FR 2 597 546	10-23-1987	Voigt		
		JP 8 14164	01-16-1996	Niwada		
		JP2001 159395	06-12-2001	Konishi		
		JP 2001 173575	06-26-2001	Nakamura		

Examiner	Date	
Signature	Considered	
Signature	Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 6

Complete if Known Application Number 10/021,566 Filing Date December 12, 2001 First Named Inventor Hunter et al. Art Unit 3746 **Examiner Name** John F. Belena, Ph.D Attorney Docket Number DKT 00147A (BWI-00061)

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	⊤ 6
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	
		EP 1 076 164	02-14-2001	Wust		
		2001-294166	10-23-2001	Yukihisa		
		DE 37 11 792	10-22-1987	Voigt		
		DE 34 46 603	01-11-1985	Tantardini		
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Examiner	Date	
Signature	Considered	
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